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REPORT

NMTBA
The Association For Manufacturing Technology
Direct Dial: (703) 827-5260

STATISTICAL

No. 143-90 October 31, 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY – AUGUST 1990

(Values in Millions of U.S. Dollars)

	Aug. 1990	July 1990	Average May-July	Year to Date '90	Year to Date '89	% Change YTD '89-'90
METAL CUTTING MACHINE TOOLS						
Exports	$ 45.4	$ 48.9	$ 46.5	$ 401.6	$ 311.6	28.9%
Imports	$192.4	$190.7	$151.2	$1,226.6	$1,289.8	(4.9%)
Balance	($147.0)	($141.8)	($104.7)	($ 825.0)	($ 978.2)	(15.7%)
METAL FORMING MACHINE TOOLS						
Exports	$ 35.5	$ 34.7	$ 38.8	$ 309.9	$ 322.5	(3.9%)
Imports	$ 61.5	$ 41.3	$ 40.4	$ 334.8	$ 390.0	(14.2%)
Balance	($ 26.0)	($ 6.6)	($ 1.6)	($ 24.9)	($ 67.5)	(63.1%)
MACHINE TOOL TOTAL						
Exports	$ 81.0	$ 83.6	$ 85.2	$ 711.6	$ 634.1	12.2%
Imports	$253.9	$232.0	$191.5	$1,561.4	$1,679.7	(7.0%)
Balance	($172.9)	($148.4)	($106.3)	($ 849.8)	($1,045.6)	(18.7%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Exports	$ 27.7	$ 27.9	$ 24.8	$ 231.0	$ 156.5	47.6%
Imports	$142.4	$119.9	$ 94.4	$ 833.4	$ 887.9	(6.1%)
Balance	($114.7)	($ 92.0)	($ 69.6)	($ 602.4)	($ 731.4)	(17.6%)
OTHER MANUFACTURING TECHNOLOGY						
Exports	$151.7	$135.7	$152.7	$1,208.0	N.A.	N.A.
Imports	$173.6	$164.2	$154.7	$1,325.1	N.A.	N.A.
Balance	($ 21.9)	($ 28.5)	($ 2.0)	($ 117.1)	N.A.	N.A.

Note: Numerically controlled machine tools is a subgroup of the machine tool total. N.A. = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding.

- Total machine tool imports in August rose to $253.9 million, the highest monthly total ever. Combined imports in July and August of $485.9 is easily the highest two-month total ever.

- In 1990 through August, U.S. machine tool exports were 12% higher than the comparable period in 1989. Exports of NC machines were up 48% over 1989.

- The overall U.S. machine tool trade deficit improved 19% through August 1990 at $849.8 million. The comparable number in 1989: $1,045.6.

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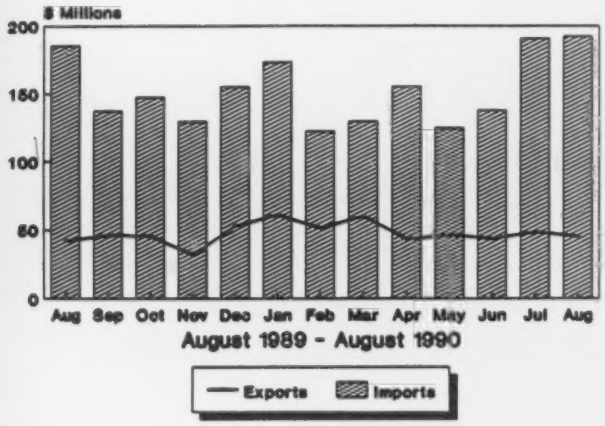
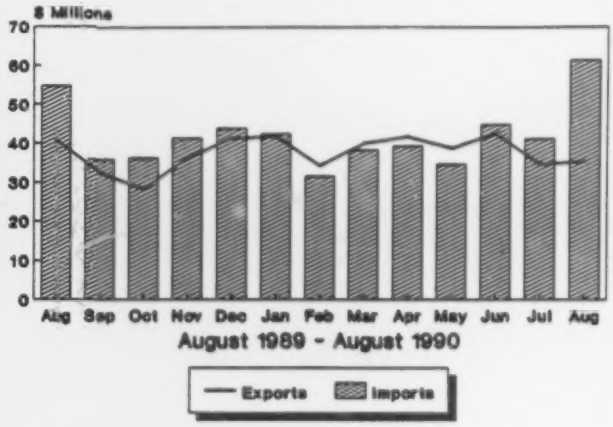
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING MACHINE TOOLS

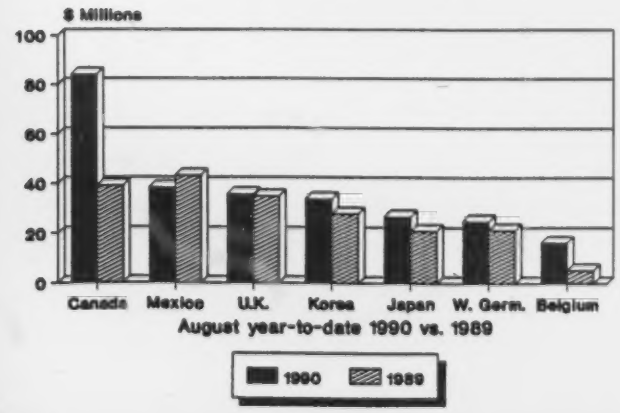
Exports

• Metal cutting exports in August were $45.4 million, down 7% from July and down 2% from the average for the previous three months. The total so far in 1990: $401.6 million, up 29% over 1989.

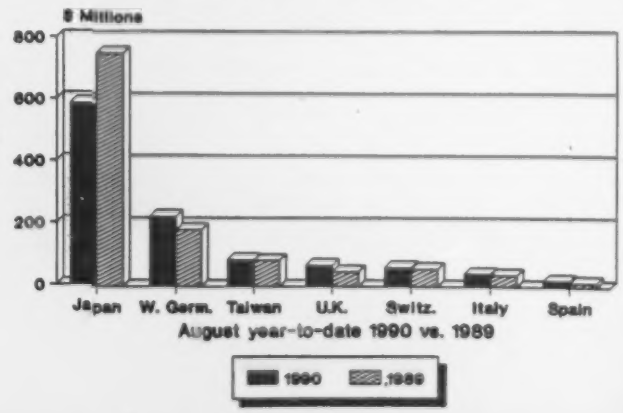
• Exports of vertical NC lathes in August were $4.9 million -- the total for January-July combined: $3.0 million. (Of the $4.9 million total, $4.1 million went to India.) Exports of grinding machines were $14.1 million in August, the second straight big monthly increase for that category.

• Canada remains the dominant export market at $84.3 million through August, up 115% over 1989. Japan was the largest market in August at $7.1 million, by far its highest monthly total in 1990.

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• U.S. metal cutting imports in August were a record $192.4 million, up slightly from the previous record set the month before.

• Metal cutting imports from West Germany in August were $54.2 million, up from $47.7 million in July. July and August represent Germany's two highest months ever. (Germany's 1990 average excluding July and August: $20.5 million.) Metal cutting imports from Japan in August were unchanged from July.

• Imports of gear cutting machines were $7.5 million in August, up from an average of $3.6 million for the first seven months of 1990, for a year-to-date total of $32.6 million. The top suppliers so far in 1990: West Germany ($19.7 million), Switzerland ($5.0 million), and Japan ($4.8 million).

METAL FORMING MACHINE TOOLS

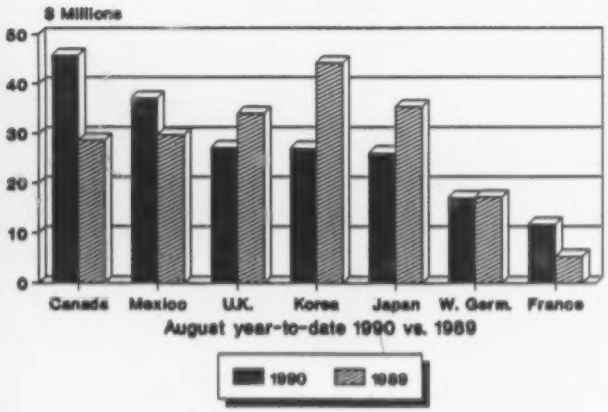
Exports

• U.S. exports of metal forming machines rose slightly in August over July to $35.5 million. The average so far in 1990: $38.7 million.

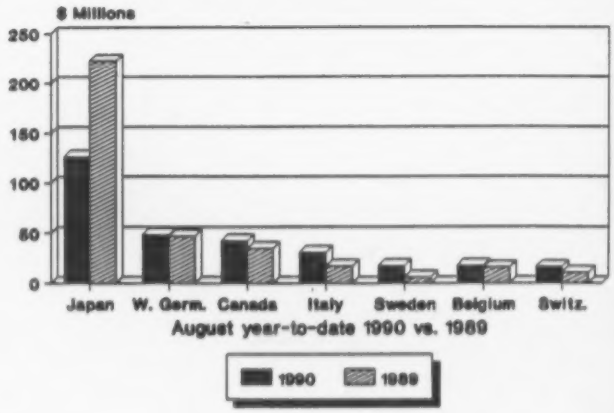
• Canada remains the top export market at $45.8 million, up from $28.6 million in 1989, followed by Mexico ($37.1 million) and the United Kingdom ($27.2 million).

•Exports of bending and forming machines so far in 1990 ($44.2 million) are 32% higher than in 1989; exports of punching and shearing machines are up 12%.

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• Metal forming imports jumped to $61.5 million in August, up from an average of $39.0 million from January-July 1990. August's total is the sixth highest monthly total ever.

• Imports of presses in August shot to $21.0 million, up from $6.8 million in July, while imports of bending and forming machines rose to $15.1 million in August from $6.1 million in July.

• Imports from Sweden were $12.9 million in August, more than double the January-July total. The reason: one NC bending and forming machine valued at $3.0 million and two NC hydraulic presses valued at $9.6 million.

OTHER MANUFACTURING TECHNOLOGY

Exports

• U.S. exports of other manufacturing technology rose to $151.7 million in August, about equal to the average monthly total for the year.

• Exports of industrial robots were $6.8 million in August; the monthly average so far in 1990: $5.6 million. Exports of laser, light or photon beam machines for working any material were $6.2 million in August; the monthly average so far in 1990: $4.0 million.

• Exports of machine tool parts and accessories were $474.4 million in 1990 through August, down from $477.6 million in 1989.

Imports

• U.S. imports of of other manufacturing technology were $173.6 million in August, up from $164.2 million in July and $147.4 million in June.

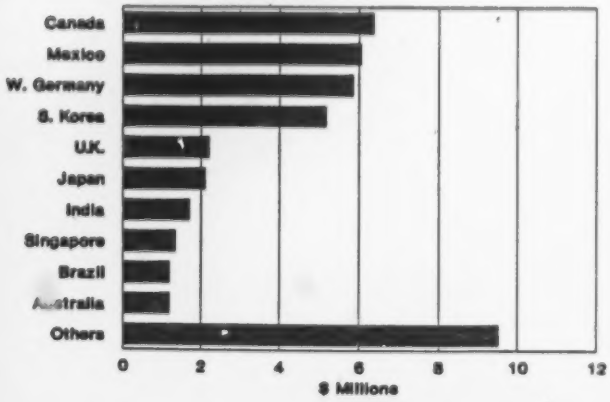
• Imports of laser, light or photon machines for working any material were $6.7 million in August; the average for 1990: $4.3 million.

• Imports of injection molding machines for working all materials were $31.3 million in August, for a year-to-date total of $216.5 million. Japan has supplied 43%, or $92.1 million, of the $216.5 million.

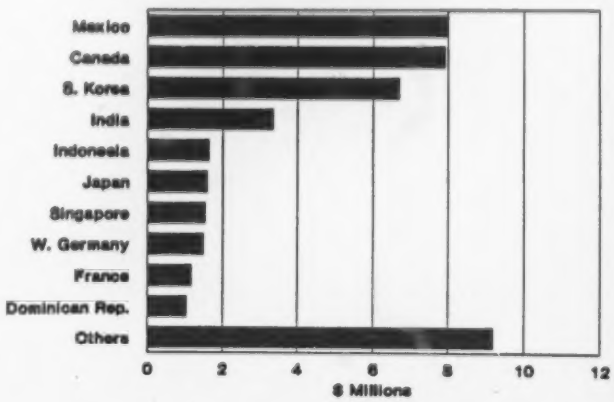
MONTHLY FOCUS

Through the first eight months of 1990, U.S. exports of used and rebuilt machines totalled $86.1 million, down slightly from the $87.7 million at the same time last year. Of the $86.1 million, metal cutting machines account for $42.6 million, or 49%, while metal forming machines account for $43.5 million, or 51%. The charts below detail the destinations of U.S. exports of used and rebuilt machine tools in 1990 through August. Canada is the largest market at $14.3 million, followed by Mexico ($14.0 million), South Korea ($11.8 million), West Germany ($7.3 million) and India ($5.0 million).

U.S. Exports of Used or Rebuilt
Metal Cutting Machines Jan.-Aug. 1990



U.S. Exports of Used or Rebuilt
Metal Forming Machines Jan.-Aug. 1990



1990 EXPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Canada	$ 5,797,617	$ 9,558,187	-39.34%	$84,259,058	$39,198,836	114.95%
Mexico	6,661,079	3,302,782	101.68	38,403,252	43,388,314	-11.49
U.K.	3,240,440	2,514,315	28.88	35,758,332	34,929,364	2.37
Korea	2,391,974	4,061,765	-41.11	33,989,259	27,979,266	21.48
Japan	7,146,552	4,292,618	66.48	26,989,066	21,116,107	27.81
West Germany	1,860,361	1,679,859	10.75	25,227,164	21,698,894	16.26
Belgium	957,009	1,336,072	-28.37	16,463,910	5,226,156	215.03
India	4,695,070	551,288	751.65	15,370,787	8,025,989	91.51
China	1,901,325	337,484	463.38	14,152,707	18,804,866	-24.74
Autralia	3,182,356	254,051	1,152.64	13,443,428	7,424,646	81.06
Italy	855,507	3,498,144	-75.54	12,482,980	10,053,899	24.16
Brazil	925,401	840,075	10.16	10,464,635	6,640,888	57.58
Taiwan	522,368	4,824,914	-89.17	8,746,521	5,650,175	54.80
France	85,519	1,288,794	-93.36	6,251,067	9,521,298	-34.35
Singapore	906,954	765,516	18.48	6,076,267	5,907,832	2.85
Venzuela	829,927	213,555	288.62	4,702,024	4,675,429	0.57
Switzerland	390,405	1,086,587	-64.07	4,505,898	2,754,336	63.59
Spain	42,852	1,741,512	-97.54	4,460,242	2,773,112	60.84
Netherlands	343,353	1,180,542	-70.92	4,050,817	3,425,833	18.24
USSR	0	465,855	-100.00	3,707,174	1,219,935	203.88
Malaysia	972,466	535,305	81.67	2,150,679	723,815	197.13
Thailand	201,994	40,625	397.22	1,388,277	1,876,029	-26.00
Austria	29,816	6,892	332.62	226,757	983,240	-76.94
Indonesia	28,201	7,209	291.19	166,252	3,774,110	-95.59

METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Canada	$ 5,442,737	$ 4,733,985	14.97%	$45,814,978	$28,596,693	60.21%
Mexico	3,927,382	4,212,057	-6.76	37,132,190	29,749,294	24.82
U.K.	1,145,530	2,364,764	-51.56	27,237,554	34,079,789	-20.08
Korea	4,181,197	2,794,171	49.64	27,029,206	44,205,349	-38.86
Japan	4,211,843	3,468,414	21.43	26,140,536	35,374,307	-26.10
West Germany	1,097,303	2,576,570	-57.41	17,110,225	17,284,022	-1.01
France	535,365	1,526,959	-64.94	11,805,247	5,341,135	121.03
China	497,350	412,000	20.72	11,376,279	8,022,455	41.81
Taiwan	529,633	652,523	-18.83	10,169,553	11,869,049	-14.32
Italy	738,009	246,961	198.84	6,644,691	6,383,367	4.09
India	17,654	416,593	-95.76	5,736,995	6,564,539	-12.61
Netherlands	1,055,977	668,319	58.00	5,714,784	5,651,429	1.12
Brazil	1,033,206	1,323,186	-21.92	5,102,541	5,333,108	-4.32
Spain	170,589	1,147,429	-85.13	4,639,932	3,250,502	42.75
Indonesia	2,093,331	2,195,049	-4.63	4,339,474	152,452	2,746.45
Singapore	263,200	744,197	-64.63	4,279,494	6,609,347	-35.25
Malaysia	125,526	783,382	-83.98	4,037,771	1,340,336	201.25
Autralia	154,478	467,673	-66.97	3,915,179	5,036,315	-22.26
Thailand	370,817	808,493	-54.13	3,607,644	3,234,442	11.54
Belgium	154,389	62,640	146.47	2,311,019	2,311,735	-0.03
Austria	386,078	90,303	327.54	2,108,866	662,010	218.56
Switzerland	192,190	114,823	67.38	1,687,521	1,180,106	43.00
Venzuela	59,820	105,075	-43.07	1,027,995	7,485,819	-86.27
USSR	0	0	NA	694,819	107,711	545.08

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Canada	$11,240,354	$14,292,172	-21.35%	$130,074,036	$67,795,529	91.86%
Mexico	10,588,461	7,514,839	40.90	75,535,442	73,137,608	3.28
U.K.	4,385,970	4,879,079	-10.11	62,995,886	69,009,153	-8.71
Korea	6,573,171	6,855,936	-4.12	61,018,465	72,184,615	-15.47
Japan	11,358,395	7,761,032	46.35	53,129,602	56,490,414	-5.95
West Germany	2,957,664	4,256,429	-30.51	42,337,389	38,982,916	8.60
China	2,398,675	749,484	220.04	25,528,986	26,827,321	-4.84
India	4,712,724	967,881	386.91	21,107,782	14,590,528	44.67
Italy	1,593,516	3,745,105	-57.45	19,127,671	16,437,266	16.37
Taiwan	1,052,001	5,477,437	-80.79	18,916,074	17,519,224	7.97
Belgium	1,111,398	1,398,712	-20.54	18,774,929	7,537,891	149.07
France	620,884	2,815,753	-77.95	18,056,314	14,862,433	21.49
Autralia	3,336,834	721,724	362.34	17,358,607	12,460,961	39.30
Brazil	1,958,607	2,163,261	-9.46	15,567,176	11,973,996	30.01
Singapore	1,170,154	1,509,713	-22.49	10,355,761	12,517,179	-17.27
Netherlands	1,399,330	1,848,861	-24.31	9,765,601	9,077,262	7.58
Spain	213,441	2,888,941	-92.61	9,100,174	6,023,614	51.07
Switzerland	582,595	1,201,410	-51.51	6,193,419	3,934,442	57.42
Malaysia	1,097,992	1,318,687	-16.74	6,188,450	2,064,151	199.81
Venzuela	889,747	318,630	179.24	5,730,019	12,161,248	-52.88
Thailand	572,811	849,118	-32.54	4,995,921	5,110,471	-2.24
Indonesia	2,121,532	2,202,258	-3.67	4,505,726	3,926,562	14.75
USSR	0	465,855	-100.00	4,401,993	1,327,646	231.56
Austria	415,894	97,195	327.90	2,335,623	1,645,250	41.96

1990 IMPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$82,828,649	$82,868,942	-0.05%	$585,436,854	$750,489,980	-21.99%
West Germany	54,244,598	47,717,660	13.68	224,717,982	181,755,614	23.64
Taiwan	9,779,840	11,572,427	-15.49	86,793,995	83,877,378	3.48
U.K.	7,444,968	8,188,425	-9.08	69,066,497	48,171,385	43.38
Switzerland	11,407,997	9,304,644	22.61	62,417,990	57,170,526	9.18
Italy	4,333,233	5,467,288	-20.74	41,492,815	37,699,667	10.06
Spain	3,854,207	4,666,415	-17.41	20,119,355	13,804,071	45.75
France	1,749,607	5,537,454	-68.40	20,004,136	17,514,821	14.21
Canada	1,116,904	2,011,567	-44.48	15,214,274	13,671,160	11.29
Korea	2,525,145	603,361	318.51	13,689,072	16,851,690	-18.77
Singapore	1,107,136	1,772,163	-37.53	13,663,260	10,367,268	31.79
Sweden	2,531,801	1,982,368	27.72	11,237,172	7,687,616	46.17
Brazil	493,347	347,652	41.91	9,495,423	4,168,824	127.77
Belgium	205,399	11,578	1,674.05	1,232,717	4,498,308	-72.60

METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$20,859,668	$18,257,269	14.25%	$126,762,938	$222,503,150	-43.03%
West Germany	8,913,567	6,335,644	40.69	48,772,434	46,922,059	3.94
Canada	5,321,903	6,662,784	-20.12	42,625,543	34,920,819	22.06
Italy	5,304,790	2,613,845	102.95	31,112,656	17,133,104	81.59
Sweden	12,935,168	599,386	2,058.07	17,838,349	5,956,195	199.49
Belgium	1,186,838	1,650,249	-28.08	17,544,919	15,735,839	11.50
Switzerland	1,949,858	2,061,889	-5.43	16,280,122	10,665,177	52.65
U.K.	1,884,725	620,830	203.58	9,845,592	9,708,639	1.41
Taiwan	607,741	869,450	-30.10	7,181,324	5,902,348	21.67
Spain	268,229	310,629	-13.65	3,079,239	1,937,267	58.95
France	362,485	312,238	16.09	2,818,007	1,170,445	140.76
Korea	390,655	0	NA	514,347	174,508	194.74
Brazil	200,000	0	NA	200,000	4,508,589	-95.56
Singapore	5,233	7,908	-33.83	70,200	725,962	-90.33

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	AUGUST	JULY	%CHANGE	AUG YTD'90	AUG YTD'89	%CHANGE
Japan	$103,688,317	$101,126,211	2.53%	$712,199,792	$972,993,130	-26.80%
West Germany	63,158,165	54,053,304	16.84	273,490,416	228,677,673	19.60
Taiwan	10,387,581	12,441,877	-16.51	93,975,319	89,779,726	4.67
U.K.	9,329,693	8,809,255	5.91	78,912,089	57,880,024	36.34
Switzerland	13,357,855	11,366,533	17.52	78,698,112	67,835,703	16.01
Italy	9,638,023	8,081,133	19.27	72,605,471	54,832,771	32.41
Canada	6,438,807	8,674,351	-25.77	57,839,817	48,591,979	19.03
Sweden	15,466,969	2,581,754	499.09	29,075,521	13,643,811	113.10
Spain	4,122,436	4,977,044	-17.17	23,198,594	15,741,338	47.37
France	2,112,092	5,849,692	-63.89	22,822,143	18,685,266	22.14
Belgium	1,392,237	1,661,827	-16.22	18,777,636	20,234,147	-7.20
Korea	2,915,800	603,361	383.26	14,203,419	17,026,198	-16.58
Singapore	1,112,369	1,780,071	-37.51	13,733,460	11,093,230	23.80
Brazil	693,347	347,652	99.44	9,695,423	8,677,413	11.73

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	2,899	12,224,015	4,543	10,935,156	5,847	11,979,000	4,803	14,929,198
Boring Machines	13	958,297	8	1,407,307	13	1,519,123	8	1,954,122
Drilling Machines	110	2,255,419	53	920,425	94	2,533,602	62	1,031,525
Gear Cutting Machines	41	5,554,867	19	3,700,605	17	3,507,653	4	342,956
Grinding Machines	271	15,211,730	228	10,470,138	459	12,592,065	306	10,686,858
Horizontal Lathes NC	43	4,863,833	35	5,062,164	35	2,648,406	39	5,237,685
Vertical Lathes NC	5	1,223,137	0	0	16	892,377	5	262,000
Lathes Non-NC	58	1,113,041	48	1,473,294	76	1,855,222	65	2,364,278
Milling Machines	48	3,596,641	29	3,228,995	75	5,272,375	32	3,018,604
Machining Centers	65	7,526,957	34	6,062,752	50	8,542,651	26	4,477,012
Station Type Machines	10	5,374,341	28	7,752,282	8	4,611,947	2	596,029
Other Metal Cutting	314	7,165,369	312	7,438,893	364	9,303,138	269	6,223,447
Punching & Shearing Machines	107	4,427,453	121	9,826,370	155	5,546,446	111	3,759,666
Bending & Forming Machines	137	5,902,352	125	3,466,071	128	5,372,091	177	6,400,347
Presses	259	11,682,624	130	6,795,010	273	10,390,057	191	11,017,558
Forging Machines	26	5,015,295	16	2,278,536	31	3,378,097	26	3,198,154
Other Metal Forming	265	8,974,698	264	5,154,346	312	10,516,058	203	9,968,707
TOTAL	4,671	103,070,069	5,993	85,972,344	7,953	100,460,308	6,329	85,468,146

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	5,514	13,323,757	6,556	17,922,902	5,058	13,126,467	4,863	14,611,340
Boring Machines	23	2,694,052	28	725,470	16	3,194,775	8	1,024,328
Drilling Machines	141	1,391,074	120	1,137,000	61	1,735,259	98	1,658,877
Gear Cutting Machines	16	3,920,375	23	7,676,020	35	8,746,125	4	2,246,285
Grinding Machines	234	9,407,118	266	5,746,890	390	11,166,259	324	14,070,348
Horizontal Lathes NC	43	4,213,770	45	4,033,357	30	3,555,437	30	2,587,966
Vertical Lathes NC	4	245,844	1	63,000	5	276,808	12	4,857,652
Lathes Non-NC	60	1,105,382	85	1,435,017	65	899,416	62	1,664,183
Milling Machines	38	1,738,745	13	603,525	33	5,244,894	28	1,875,948
Machining Centers	23	4,666,577	39	6,176,997	24	2,387,041	16	2,320,834
Station Type Machines	2	2,487,300	0	0	1	245,000	0	0
Other Metal Cutting	484	5,316,601	378	6,376,676	267	4,712,434	232	5,861,015
Punching & Shearing Machines	162	6,578,641	178	7,923,077	143	5,170,365	79	2,249,460
Bending & Forming Machines	142	4,048,283	125	4,440,766	136	5,191,915	269	9,426,251
Presses	287	8,435,990	154	10,425,441	145	5,027,176	133	4,874,468
Forging Machines	67	6,501,594	40	3,738,610	42	5,222,953	27	5,550,253
Other Metal Forming	324	9,293,053	340	8,244,762	230	7,705,041	233	6,075,258
TOTAL	7,564	85,368,156	8,391	86,669,510	6,681	83,607,365	6,418	80,954,466

1990 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	AUG'90 Y-T-D TOTALS Units	AUG'90 Y-T-D TOTALS Value	AUGUST 1989 Units	AUGUST 1989 Value	AUG'89 Y-T-D TOTALS Units	AUG'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	40,083	109,051,835	5,859	10,954,511	37,681	100,904,418
Boring Machines	117	13,477,474	26	1,370,063	204	12,284,705
Drilling Machines	739	12,663,181	42	1,575,597	215	11,360,454
Gear Cutting Machines	159	35,694,886	18	3,423,837	184	25,478,350
Grinding Machines	2,478	89,351,406	349	12,629,954	2,634	87,806,993
Horizontal Lathes NC	300	32,202,618	12	1,014,932	151	14,981,247
Vertical Lathes NC	48	7,820,818	3	368,610	15	2,033,391
Lathes Non-NC	519	11,909,833	39	1,110,067	350	9,886,385
Milling Machines	296	24,579,727	39	1,503,000	416	21,390,672
Machining Centers	277	42,160,821	34	3,690,718	184	26,814,988
Station Type Machines	51	21,066,899	6	5,025,800	37	14,317,764
Other Metal Cutting	2,620	52,397,573	178	4,880,157	1,594	39,459,383
Punching & Shearing Machines	1,056	45,481,478	118	6,391,378	822	40,678,336
Bending & Forming Machines	1,239	44,248,076	80	4,172,832	716	33,568,214
Presses	1,572	68,648,324	118	8,418,897	1,013	53,733,579
Forging Machines	275	34,883,492	77	2,971,894	494	25,846,100
Other Metal Forming	2,171	65,931,923	277	13,789,261	2,972	113,587,111
TOTAL	54,000	711,570,364	7,275	83,291,508	49,682	634,132,090

PRODUCT TYPES	% CHANGE JUL 90' - AUG 90' Units	% CHANGE JUL 90' - AUG 90' Value	% CHANGE AUG 89' - AUG 90' Units	% CHANGE AUG 89' - AUG 90' Value	% CHANGE YTD 89' - YTD 90' Units	% CHANGE YTD 89' - YTD 90' Value
Used & Rebuilt & Under $2,500	-3.86	11.31	-17.00	33.38	6.37	8.07
Boring Machines	-50.00	-67.94	-69.23	-25.23	-42.65	9.71
Drilling Machines	60.66	-4.40	133.33	5.29	243.72	11.47
Gear Cutting Machines	-88.57	-74.32	-77.78	-34.39	-13.59	40.10
Grinding Machines	-16.92	26.01	-7.16	11.40	-5.92	1.76
Horizontal Lathes NC	0.00	-27.21	150.00	154.99	98.68	114.95
Vertical Lathes NC	140.00	1,654.88	300.00	1,217.83	220.00	284.62
Lathes Non-NC	-4.62	85.03	58.97	49.92	48.29	20.47
Milling Machines	-15.15	-64.23	-28.21	24.81	-28.85	14.91
Machining Centers	-33.33	-2.77	-52.94	-37.12	50.54	57.23
Station Type Machines	-100.00	-100.00	-100.00	-100.00	37.84	47.14
Other Metal Cutting	-13.11	24.37	30.34	20.10	64.37	32.79
Punching & Shearing Machines	-44.76	-56.49	-33.05	-64.80	28.47	11.81
Bending & Forming Machines	97.79	81.56	236.25	125.90	73.04	31.82
Presses	-8.28	-3.04	12.71	-42.10	55.18	27.76
Forging Machines	-35.71	6.27	-64.94	86.76	-44.33	34.97
Other Metal Forming	1.30	-21.15	-15.88	-55.94	-26.95	-41.95
TOTAL	-3.94	-3.17	-11.78	-2.81	8.69	12.21

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990		FEBRUARY 1990		MARCH 1990		APRIL 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	80,165	15,101,348	66,011	10,754,274	64,814	11,170,439	83,714	12,296,755
Boring Machines	40	2,511,474	57	2,665,242	41	2,141,056	47	1,821,173
Drilling Machines	187	5,976,518	66	1,331,591	131	4,767,643	113	3,595,961
Gear Cutting Machines	37	5,386,214	39	3,472,430	74	3,683,095	34	4,189,126
Grinding Machines	722	28,410,149	631	18,196,164	723	19,376,535	737	21,052,417
Horizontal Lathes NC	342	34,310,797	275	24,455,772	290	24,294,192	281	25,715,875
Vertical Lathes NC	23	2,826,480	9	1,890,507	10	1,702,771	6	1,455,000
Lathes Non-NC	609	9,691,329	474	8,086,596	812	10,071,175	976	10,109,253
Milling Machines	450	9,477,437	369	5,328,255	490	4,451,840	598	7,693,031
Machining Centers	368	44,495,101	262	28,896,262	270	30,976,925	344	48,979,703
Station Type Machines	16	4,428,004	9	2,400,678	15	3,697,896	41	8,192,567
Other Metal Cutting	543	14,026,009	390	15,984,088	381	15,326,449	425	12,556,824
Punching & Shearing Machines	110	5,701,791	122	5,391,216	203	8,518,187	146	3,941,347
Bending & Forming Machines	206	7,285,979	152	5,080,016	191	7,366,810	213	6,322,513
Presses	339	7,092,434	368	3,381,548	100	4,367,203	138	9,524,846
Forging Machines	82	8,532,715	121	5,829,041	104	5,559,426	69	3,905,455
Other Metal Forming	289	10,864,319	259	10,882,669	205	10,852,813	196	13,040,125
TOTAL	84,528	216,118,098	69,614	154,026,349	68,854	168,324,455	88,078	194,391,971

PRODUCT TYPES	MAY 1990		JUNE 1990		JULY 1990		AUGUST 1990	
	Units	Value	Units	Value	Units	Value	Units	Value
Used & Rebuilt & Under $2,500	81,467	13,702,955	85,374	12,270,934	76,189	13,858,003	69,939	13,198,803
Boring Machines	63	2,378,706	33	4,123,015	88	7,667,947	40	4,597,123
Drilling Machines	105	1,412,575	110	2,955,449	220	7,524,179	130	4,735,213
Gear Cutting Machines	60	1,682,253	14	2,742,090	28	3,959,955	54	7,485,351
Grinding Machines	761	22,855,644	751	21,054,909	780	38,441,928	821	31,832,312
Horizontal Lathes NC	246	26,717,053	257	26,221,605	306	27,483,344	274	30,277,624
Vertical Lathes NC	12	2,697,583	10	1,453,386	28	3,717,107	39	3,149,926
Lathes Non-NC	684	8,838,746	758	16,925,801	799	9,013,925	498	8,340,641
Milling Machines	498	6,400,652	481	7,074,128	558	9,880,698	348	7,789,763
Machining Centers	212	21,375,164	269	26,963,021	272	46,323,978	239	40,781,551
Station Type Machines	9	5,207,130	4	4,151,942	13	9,081,198	17	14,951,123
Other Metal Cutting	477	14,389,120	302	13,417,230	431	15,980,415	542	27,220,071
Punching & Shearing Machines	168	5,567,876	165	6,624,692	138	8,166,921	163	6,554,127
Bending & Forming Machines	245	7,810,331	181	8,443,572	162	6,083,506	216	15,096,724
Presses	410	4,231,697	74	14,834,727	281	6,834,799	902	21,031,332
Forging Machines	46	3,389,713	85	3,437,927	90	6,719,333	42	3,824,899
Other Metal Forming	198	11,187,287	186	10,134,241	297	11,238,578	227	13,026,763
TOTAL	85,661	159,844,485	89,054	182,828,669	80,680	231,975,814	74,491	253,893,346

1990 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	AUG'90 Y-T-D TOTALS Units	AUG'90 Y-T-D TOTALS Value	AUGUST 1989 Units	AUGUST 1989 Value	AUG'89 Y-T-D TOTALS Units	AUG'89 Y-T-D TOTALS Value
Used & Rebuilt & Under $2,500	607,673	102,353,511	74,032	16,965,543	450,143	107,553,718
Boring Machines	409	27,905,736	75	3,376,302	598	41,216,983
Drilling Machines	1,062	32,299,129	248	9,230,435	1,318	60,444,157
Gear Cutting Machines	340	32,600,514	57	5,892,446	515	30,235,762
Grinding Machines	5,926	201,220,058	829	32,609,425	5,459	200,576,927
Horizontal Lathes NC	2,271	219,476,262	352	32,470,483	2,857	259,499,919
Vertical Lathes NC	137	18,892,760	16	1,717,600	108	17,374,150
Lathes Non-NC	5,610	81,077,466	540	6,924,904	3,688	60,477,313
Milling Machines	3,792	58,095,804	641	11,154,525	4,029	80,664,673
Machining Centers	2,236	288,791,705	396	40,355,378	2,451	269,138,823
Station Type Machines	124	52,110,538	32	9,664,860	160	47,028,346
Other Metal Cutting	3,491	128,900,206	504	16,912,954	3,477	130,889,547
Punching & Shearing Machines	1,215	50,466,157	106	5,451,018	1,233	52,265,127
Bending & Forming Machines	1,566	63,489,451	153	8,870,175	1,861	66,077,653
Presses	2,612	71,298,586	148	23,625,962	1,261	116,669,892
Forging Machines	639	41,198,509	94	4,160,854	1,138	63,395,172
Other Metal Forming	1,857	91,226,795	238	10,893,099	3,784	76,229,561
TOTAL	640,960	1,561,403,187	78,461	240,275,963	484,080	1,679,737,723

PRODUCT TYPES	% CHANGE JUL'90 - AUG'90 Units	% CHANGE JUL'90 - AUG'90 Value	% CHANGE AUG'89 - AUG'90 Units	% CHANGE AUG'89 - AUG'90 Value	% CHANGE YTD'89 - YTD'90 Units	% CHANGE YTD'89 - YTD'90 Value
Used & Rebuilt & Under $2,500	-8.20	-4.76	-5.53	-22.20	35.00	-4.83
Boring Machines	-54.55	-40.05	-46.67	36.16	-31.61	-32.30
Drilling Machines	-40.91	-37.07	-47.58	-48.70	-19.42	-46.56
Gear Cutting Machines	92.86	89.03	-5.26	27.03	-33.98	7.82
Grinding Machines	5.26	-17.19	-0.97	-2.38	8.55	0.32
Horizontal Lathes NC	-10.46	10.17	-22.16	-6.75	-20.51	-15.42
Vertical Lathes NC	39.29	-15.26	143.75	83.39	26.85	8.74
Lathes Non-NC	-37.67	-7.47	-7.78	20.44	52.11	34.06
Milling Machines	-37.63	-21.16	-45.71	-30.16	-5.88	-27.98
Machining Centers	-12.13	-11.96	-39.65	1.06	-8.77	7.30
Station Type Machines	30.77	64.64	-46.88	54.70	-22.50	10.81
Other Metal Cutting	25.75	70.33	7.54	60.94	0.40	-1.52
Punching & Shearing Machines	18.12	-19.75	53.77	20.24	-1.46	-3.44
Bending & Forming Machines	33.33	148.16	41.18	70.20	-15.85	-3.92
Presses	221.00	207.71	509.46	-10.98	107.14	-38.89
Forging Machines	-53.33	-43.08	-55.32	-8.07	-43.85	-35.01
Other Metal Forming	-23.57	15.91	-4.62	19.59	-50.92	19.67
TOTAL	-7.67	9.45	-5.06	5.67	32.41	-7.04

U.S. EXPORTS
Metal Cutting Machine Tools - August 90

RELEASED: October 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	46	4190	4	1160
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	56	9619	2	369
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	14	2993	3	841
100035	Horiz. mach. ctrs., ATC	39	10736	0	0
100045	Mach. ctrs., n.e.c.	168	18813	11	1111
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	3468	0	0
300010	Multi-station transfer machines, NC	7	11259	0	0
300090	Multi-station transfer machines, non-NC	22	4138	0	0
8458110010	Horiz. lathes, multiple spindle, NC	20	4651	2	314
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	219	16794	23	1775
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	43	5733	2	208
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	18	5025	3	292
190030	Horiz. engine or toolroom lathes, non-NC	84	1614	6	90
190050	Automatic bar and/or chucking mach., single spindle, non-NC	10	283	3	42
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	35	1711	4	240
190090	Horiz. lathes, n.e.c., non-NC	302	3805	40	789
911060	Vertical turret lathes, multiple spindle, NC	1	63	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	14	657	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	31	6785	12	4858
991050	Vertical turret lathes, non-NC	26	609	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	62	3887	9	504
8459100000	Way-type unit head machines	15	2202	0	0
210080	Other drilling machines, NC	70	6199	6	713
290040	Drilling machines, multiple spindle, non-NC	29	1325	6	218
290050	Drilling machines, radial, non-NC	18	152	1	7
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	72	1506	6	278
290090	Drilling machines, n.e.c., non-NC	550	3482	79	443
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	3	1569	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	8	2856	0	0
310070	Boring-milling mach., n.e.c., NC	13	781	1	106
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	2	250	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	21	799	0	0
400040	Boring machines, vertical, NC	4	1824	1	235
400050	Boring machines, vertical, non-NC	34	1148	3	638
400070	Boring machines, n.e.c., NC	9	3308	0	0
400080	Boring machines, n.e.c., non-NC	23	942	3	45
510080	Milling machines, knee type, NC	15	1181	0	0
590030	Milling machines, knee type, non-NC	74	2574	16	679
610080	Milling machines, excl. knee type, n.e.c., NC	42	14914	5	1121
690050	Milling machines, profile, dup., or die sinking, non-NC	22	511	0	0
690070	Milling machines, bed type, non-NC	2	288	0	0
690090	Milling machines, n.e.c., non-NC	141	5111	7	77
700020	Threading or tapping machines, n.e.c., NC	26	1203	5	323
700080	Threading or tapping machines, n.e.c., non-NC	302	3056	34	377
8460110080	Flat surface grinding mach., NC	51	6439	9	2263
190010	Flat surface grinding mach., recip.-table type, non-NC	38	607	9	42
190050	Flat surface grinding mach., n.e.c., non-NC	25	4474	2	613
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	74	22098	16	4732
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	35	5114	13	1792
290030	Grinding mach., internal cylindrical, non-NC	32	2678	5	139
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	242	9918	28	942
310080	Sharpening machines (tool & cutter grinding), NC	35	3791	6	867
390050	Sharpening machines (tool & cutter grinding), non-NC	699	11148	80	546
400060	Honing or lapping machines, NC	1	492	0	0
400080	Honing or lapping machines, non-NC	473	9792	64	924
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	6	765	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	767	12036	92	1209
8461100060	Planing machines, NC	1	111	0	0
100080	Planing machines, non-NC	213	5935	7	305
200010	Shaping or slotting machines, NC	8	208	5	120
200090	Shaping or slotting machines, non-NC	25	613	0	0
300060	Broaching machines, NC	10	1139	0	0
300080	Broaching machines, non-NC	19	1292	1	48
401050	Gear hobbers	20	2506	0	0
401070	Gear shapers	25	4911	0	0
401090	Gear cutting machines, n.e.c.	66	24651	4	2246
405060	Gear grinding or finishing machines	48	3627	0	0
500050	Sawing or cutting-off machines, NC	98	3475	6	362
500090	Sawing or cutting-off machines, non-NC	957	12382	88	928
9000000001	Metal cutting machine tools, n.e.c.	915	18794	82	2238
9800000001	Used or rebuilt machine tools	3361	42646	455	5150
9900000001	Machine tools valued at less than $2,500	24595	15654	2731	2115
	Cutting Total			4000	45432
	Y-T-D Cutting Total	35560	401626		
	NC Y-T-D Cutting Total*	1257	173902		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	287
8457100015	0	0	0	0	0	0	0	0	2	369
100025	0	0	0	0	0	0	0	0	2	483
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	3	164
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	1	213
110030	0	0	0	0	5	410	0	0	0	0
110050	0	0	0	0	2	208	0	0	0	0
110090	0	0	0	0	0	0	0	0	3	292
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	3	36	0	0	5	85
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	1	32
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	46
290050	0	0	0	0	0	0	0	0	1	7
290070	0	0	0	0	0	0	0	0	3	68
290090	8	32	0	0	0	0	0	0	18	128
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	235
400050	0	0	0	0	0	0	2	628	1	10
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	15
510080	0	0	0	0	0	0	0	0	0	0
590030	4	369	0	0	0	0	0	0	2	59
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	6
700020	0	0	0	0	1	23	0	0	1	214
700080	0	0	0	0	1	61	0	0	10	98
8460110080	3	2094	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	255	0	0	0	0	0	0	1	465
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	1	23
290050	0	0	0	0	0	0	0	0	6	197
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	28	170
400060	0	0	0	0	0	0	0	0	0	0
400080	4	18	0	0	0	0	0	0	8	157
900060	0	0	0	0	0	0	0	0	0	0
900080	4	28	0	0	2	18	0	0	19	155
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	11	0	0	0	0	2	171	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	1	202	0	0	5	161
500090	2	40	0	0	0	0	0	0	13	158
9000000001	1	8	0	0	0	0	6	70	26	207
9800000001	7	239	0	0	0	0	2	42	55	908
9900000001	74	90	46	30	0	0	24	15	285	386
Month Tot	109	3182	46	30	15	957	36	925	506	5798
Y-T-D Tot	1341	13443	133	227	390	16464	525	10465	4314	84259
NC YTD Tot*	18	7137	1	23	130	14742	13	2216	288	46568

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	1	447
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	7	0	0	0	0	0	0	7	39
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	10	4145	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	3	174	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	10	39
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	164	0	0	0	0	0	0	1	231
290010	4	1509	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	45	2	37	1	22	0	0	1	19
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	5	29
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	2	27	0	0	0	0	2	15
9000000001	0	0	0	0	4	100	2	10	1	4
9800000001	0	0	2	17	53	397	0	0	1	24
9900000001	2	3	8	5	34	31	19	18	12	8
Month Tot	13	1901	14	86	102	4695	21	28	41	856
Y-T-D Tot	178	14153	800	6251	680	15371	93	166	1063	12483
NC YTD Tot*	32	8152	44	2999	20	7176	0	0	48	4123

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	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	830	0	0	0	0	1	43	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	1	358	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	1	63	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	1	101	0	0
110030	1	102	0	0	0	0	1	106	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	18	0	0	0	0	1	26	0	0
190050	1	6	0	0	0	0	1	7	0	0
190070	0	0	2	86	0	0	0	0	0	0
190090	0	0	0	0	0	0	12	555	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	623	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	3	243	0	0	1	125	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	191	0	0
290040	0	0	0	0	0	0	1	22	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	49	223	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	2	30	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	3	99	1	20	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	4	37	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	42	0	0	5	116	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	2	6	0	0	0	0	0	0	0	0
190050	1	556	0	0	0	0	1	57	0	0
210080	8	1742	0	0	0	0	3	1547	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	128	0	0	0	0	9	98	0	0
310080	2	749	2	72	0	0	0	0	0	0
390050	5	30	13	87	1	6	2	56	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	6	0	0	0	0	5	103
900060	0	0	0	0	0	0	0	0	0	0
900080	12	127	2	33	0	0	14	116	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	2	116	0	0	1	3	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	48	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	4	2246	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	9	44	2	32	0	0	9	182	32	169
9000000001	5	396	0	0	4	800	17	382	0	0
9800000001	8	111	121	1242	0	0	156	1435	4	3
9900000001	55	56	56	28	45	67	827	497	33	68
Month Tot	116	7147	207	2392	53	972	1122	6661	74	343
Y-T-D Tot	2863	26989	1289	33989	374	2151	6995	38403	398	4051
MC YTD Tot*	76	8908	55	10149	2	131	142	11002	9	860

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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	73	0	0
190090	1	11	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	90	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	25	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	29	0	0
610080	1	682	0	0	0	0	1	105	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	87	0	0
700080	1	3	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	6	134	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	36	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	5	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	4	0	0	10	152	0	0	4	24
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	18	5	61	10	105
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	0	0	0	0
9000000001	3	48	0	0	1	14	2	13	0	0
9800000001	3	120	1	35	4	17	0	0	0	0
9900000001	138	39	14	8	50	31	21	24	48	73
Month Tot	148	907	15	43	73	390	37	522	62	202
Y-T-D Tot	1084	6076	609	4460	837	4506	533	8747	241	1388
NC YTD Tot*	14	1632	24	998	4	1182	23	5381	2	122

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	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	4	288	0	0	2	149	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	14	993	0	0	0	0	1	57	1	106
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	21	0	0	1	21	0	0	1	4
190050	1	28	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	1	80	0	0
190090	2	24	0	0	0	0	5	19	4	13
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	3	47	0	0	0	0	1	33	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	269	0	0	0	0	1	79	0	0
290040	0	0	0	0	0	0	0	0	4	150
290050	0	0	0	0	0	0	0	0	0	0
290070	3	211	0	0	0	0	0	0	0	0
290090	2	51	0	0	0	0	0	0	2	8
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	106	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	3	45	0	0	0	0	0	0	2	58
610080	0	0	0	0	3	334	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	28	1	6
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	3	8	0	0	3	9
8460110080	0	0	0	0	0	0	2	55	4	114
190010	0	0	0	0	0	0	1	10	6	26
190050	0	0	0	0	0	0	0	0	0	0
210080	1	328	0	0	0	0	0	0	0	0
290010	3	150	0	0	0	0	0	0	0	0
290030	2	69	0	0	0	0	2	48	0	0
290050	1	103	0	0	0	0	10	380	0	0
310080	0	0	0	0	0	0	0	0	2	47
390050	0	0	0	0	0	0	30	193	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	3	0	0	0	0	20	301	4	33
900060	0	0	0	0	0	0	0	0	0	0
900080	6	192	0	0	1	50	4	205	6	72
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	4	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	5	120	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	4	52	0	0	0	0	2	34	11	175
9000000001	4	43	0	0	4	42	0	0	2	100
9800000001	14	170	0	0	3	222	4	14	17	154
9900000001	256	150	0	0	6	4	283	97	395	389
Month Tot	328	3240	0	0	23	830	374	1860	465	1464
Y-T-D Tot	3131	35758	23	3707	520	4702	1931	25227	5215	28189
NC YTD Tot*	164	23418	0	0	11	898	42	5710	95	10373

Please see notes on last page of the metal forming section.

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RELEASED: October 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	235	7260	17	290
8462100030	Headers and upsetters, including cold headers	41	14209	5	2493
100050	Forging or die stamping machines, and hammers, n.e.c.	234	20675	22	3058
210080	Bending, folding, straight. or flat. mach., incl presses, NC	220	19588	30	4683
290030	Press brakes, non-NC	124	2816	14	106
290040	Bending rolls, non-NC	57	1335	0	0
290050	Bending, folding, straight., or flat., n.e.c., non-NC	838	20508	225	4637
310080	Shearing machines, NC	60	5692	8	462
390050	Shearing machines, non-NC	248	5739	25	654
410080	Punching or notching mach., incl. comb. punch & shear, NC	124	18073	9	568
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	624	15978	37	564
910060	Hydraulic presses, NC	49	3754	6	781
910090	Hydraulic presses, non-NC	458	18768	28	334
990030	Presses, n.e.c., NC	111	9949	5	207
990040	Presses, mechanical, non-NC	70	7364	10	417
990060	Presses, n.e.c., non-NC	884	28814	84	3135
8463100080	Draw benches for bars, tubes, profiles, wire or the like	144	3704	38	790
200080	Thread rolling machines	39	1789	11	311
300080	Machines for working wire	513	15424	60	1462
900080	Metal forming machine tools, n.e.c.	1240	37755	107	3221
9800000002	Used or rebuilt machine tools	2455	43471	388	6323
9900000002	Machine tools valued at less than $2,500	9672	7281	1289	1023
	Forming Total			2418	35522
	Y-T-D Forming Total	18440	309945		
	NC Y-T-D Forming Total	564	57055		
	Cutting and Forming Totals:				
	Monthly Total			6418	80954
	Y-T-D Total	54000	711570		
	NC Y-T-D Total*	1821	230957		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	474382	0	57570
2000000000	Parts for working rubber or plastics - heading 8477	0	188403	0	20330
2710003070	Quenching or cutting oils	0	16614	0	701
8428900010	Industrial robots for lifting, handling, loading or unload	248	4837	11	596
8431390090	Parts industrial robots, handling and loading - heading 8428	0	48496	0	5873
8456100000	Laser, light or photon beam for working any material	628	31770	142	6203
200000	Ultrasonic process for working any material	63	1663	1	13
8477106010	Injection molding mach., for rubber or oth. thermosetting	212	9467	90	1324
106070	Injection molding mach., for thermoplastics	274	34368	33	3220
200010	Extruders for rubber or other thermosetting materials	243	9447	12	462
200050	Extruders for processing thermoplastics	616	28021	111	3842
300000	Blow molding machines	449	34183	69	6858
400000	Vacuum-molding and other thermoforming machines	4523	11398	62	2889
510010	Machines for molding or retreading pneumatic tires	609	12283	42	890
510090	Machines for molding or otherwise forming inner tubes	282	26168	40	2163
590000	Machines for molding or otherwise forming n.e.c.	885	16306	110	2197
800000	Machines for working rubber or plastics n.e.c.	3021	76011	645	15322
8479899040	Industrial robots, n.e.c.	4292	40028	823	6237
908040	Industrial robot parts	0	20418	0	1713
8537100030	Numerical controls for controlling machine tools	1421	21077	140	2532
9024100000	Machines and appliances for testing metals	0	46896	0	4223
9031100000	Machines for balancing mechanical parts	0	20090	0	2189
300000	Profile projectors	0	5660	0	195
9032810040	Industrial process control instr., hydraulic or pneumatic	424870	30048	36015	4187

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	1	84
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	51	0	0	2	158
210080	1	33	0	0	0	0	0	0	9	809
290030	0	0	0	0	0	0	0	0	12	56
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	2	15	31	828
310080	0	0	0	0	0	0	0	0	2	107
390050	0	0	0	0	6	92	0	0	6	137
410080	0	0	0	0	0	0	0	0	0	0
490050	4	26	0	0	0	0	2	30	13	117
910060	0	0	0	0	0	0	0	0	3	704
910090	0	0	0	0	0	0	0	0	2	101
990030	0	0	0	0	0	0	0	0	3	45
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	3	733	5	71
100080	0	0	0	0	0	0	0	0	3	329
200080	0	0	0	0	0	0	0	0	9	207
300080	0	0	1	13	0	0	2	50	1	17
900080	2	51	8	363	0	0	1	173	19	540
9800000002	2	36	0	0	0	0	1	24	55	934
9900000002	79	8	12	11	10	11	9	8	203	197
Month Tot	88	154	21	386	17	154	20	1033	379	5443
Y-T-D Tot	401	3915	59	2109	532	2311	442	5103	2951	45815
NC YTD Tot	26	1908	0	0	0	0	8	501	113	14201
C&F Month	197	3337	67	416	32	1111	56	1959	885	11240
C&F Y-T-D	1742	17359	192	2336	922	18775	967	15567	7265	130074
C&F NC YTD*	44	9046	1	23	130	14742	21	2717	401	60769

Other Manufacturing Technology

1000000000	0	937	0	145	0	443	0	946	0	11548
2000000000	0	646	0	32	0	147	0	886	0	5204
2710003070	0	26	0	0	0	9	0	0	0	102
8428900010	1	16	0	0	0	0	0	0	6	546
8431390090	0	733	0	0	0	148	0	22	0	1607
8456100000	0	0	0	0	0	0	0	0	1	22
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	75	550	0	0
106070	0	0	0	0	0	0	0	0	8	1256
200010	0	0	0	0	0	0	0	0	4	123
200050	0	0	0	0	0	0	0	0	20	489
300000	1	580	0	0	0	0	0	0	5	1345
400000	1	5	0	0	0	0	0	0	3	813
510010	1	11	0	0	0	0	1	23	3	160
510090	0	0	0	0	0	0	0	0	0	0
590000	2	11	0	0	0	0	0	0	3	133
800000	13	80	0	0	3	140	4	3	75	2320
8479899040	0	0	0	0	0	0	0	0	609	4778
908040	0	17	0	0	0	0	0	4	0	865
8537100030	1	17	0	0	0	0	1	17	16	176
9024100000	0	96	0	44	0	61	0	149	0	542
9031100000	0	9	0	0	0	0	0	0	0	978
300000	0	0	0	0	0	0	0	0	0	4
9032810040	2501	182	233	12	303	17	0	0	2321	182

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	1	85	0	0	0	0	0	0
100050	1	166	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	320	0	0	0	0	148	2062	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	12	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	22
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	1	24	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	2	65
900080	0	0	0	0	0	0	0	0	2	589
9800000002	0	0	23	419	0	0	28	31	25	52
9900000002	0	0	9	7	21	18	0	0	10	10
Month Tot	3	497	34	535	21	18	176	2093	40	738
Y-T-D Tot	334	11376	447	11805	347	5737	195	4339	247	6645
NC YTD Tot	3	2629	36	4031	0	0	3	576	8	772
C&F Month	16	2399	48	621	123	4713	197	2122	81	1594
C&F Y-T-D	512	25529	1247	18056	1027	21108	288	4506	1310	19128
C&F NC YTD*	35	10781	80	7030	20	7176	3	576	56	4895

Other Manufacturing Technology

1000000000	0	2898	0	1498	0	251	0	127	0	1154
2000000000	0	796	0	1065	0	277	0	41	0	462
2710003070	0	0	0	39	0	0	0	8	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	0	0	89	0	286	0	45	0	21
8456100000	0	0	17	1086	0	0	0	0	20	460
200000	0	0	1	13	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	1	245	30	2123	0	0	0	0
400000	8	159	2	406	0	0	0	0	0	0
510010	0	0	1	50	0	0	0	0	1	33
510090	0	0	0	0	0	0	0	0	0	0
590000	1	150	3	44	5	34	0	0	1	19
800000	134	5362	28	434	0	0	1	32	4	29
8479899040	0	0	61	369	2	10	0	0	13	76
908040	0	0	0	31	0	0	0	0	0	23
8537100030	1	16	16	311	0	0	0	0	11	100
9024100000	0	17	0	92	0	29	0	0	0	33
9031100000	0	0	0	26	0	292	0	0	0	0
300000	0	0	0	3	0	0	0	0	0	0
9032810040	12	14	1389	1805	147	20	0	0	999	94

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal rorming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	15	0	0
8462100030	3	2288	0	0	0	0	0	0	0	0
100050	2	1607	10	603	0	0	2	273	0	0
210080	0	0	4	167	2	70	5	204	4	185
290030	2	50	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	60	4	608	1	13	12	115	0	0
310080	1	42	0	0	0	0	2	137	2	124
390050	0	0	0	0	0	0	6	312	0	0
410080	0	0	0	0	0	0	6	226	1	191
490050	2	15	0	0	0	0	3	40	4	48
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	16	125	0	0
990030	0	0	0	0	0	0	1	140	0	0
990040	0	0	0	0	0	0	2	44	0	0
990060	4	39	2	1110	0	0	26	308	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	1	15	0	0
300080	0	0	2	79	1	14	11	285	1	12
900080	1	14	7	126	1	29	20	214	19	462
9800000002	0	0	5	1465	0	0	124	1290	0	0
9900000002	158	97	38	23	0	0	189	184	43	35
Month Tot	177	4212	72	4181	5	126	428	3927	74	1056
Y-T-D Tot	1352	26141	550	27029	84	4038	4052	37132	247	5715
NC YTD Tot	25	3135	38	3610	13	723	88	5228	39	3386
C&F Month	293	11358	279	6573	58	1098	1550	10588	148	1399
C&F Y-T-D	4215	53130	1839	61018	458	6188	11047	75535	645	9766
C&F NC YTD*	101	12043	93	13759	15	854	230	16231	48	4245

Other Manufacturing Technology

1000000000	0	5755	0	1937	0	523	0	4882	0	804
2000000000	0	733	0	185	0	63	0	2428	0	365
2710003070	0	15	0	14	0	5	0	58	0	0
8428900010	0	0	0	0	0	0	1	3	0	0
8431390090	0	138	0	7	0	34	0	156	0	44
8456100000	61	3005	1	13	0	0	0	0	1	150
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	11	474	0	0
106070	0	0	0	0	0	0	10	1058	0	0
200010	0	0	1	170	0	0	3	111	0	0
200050	13	453	0	0	0	0	2	33	0	0
300000	0	0	0	0	0	0	7	1391	0	0
400000	14	53	0	0	0	0	28	358	0	0
510010	0	0	0	0	0	0	18	258	0	0
510090	1	13	0	0	0	0	0	0	0	0
590000	23	363	3	778	0	0	46	150	0	0
800000	26	386	13	205	24	381	48	637	16	77
8479899040	5	25	1	9	1	63	10	60	0	0
908040	0	204	0	0	0	0	0	132	0	6
8537100030	0	0	1	14	3	43	13	722	7	68
9024100000	0	940	0	134	0	9	0	112	0	10
9031100000	0	71	0	132	0	6	0	236	0	25
300000	0	32	0	0	0	0	0	13	0	0
9032810040	325	104	693	52	0	0	1237	141	7996	425

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	27	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	2	111	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	3	108	1	19	2	56	0	0	0	0
310080	0	0	0	0	0	0	1	53	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	11	0	0	0	0	0	0	0	0
910060	0	0	0	0	1	35	0	0	1	30
910090	0	0	7	68	1	7	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990041	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	1	181	0	0
8463100080	0	0	0	0	3	87	0	0	16	154
200080	0	0	0	0	0	0	0	0	0	0
300080	1	4	3	84	0	0	4	112	0	0
900080	4	60	0	0	0	0	1	13	0	0
9800000002	2	50	0	0	0	0	0	0	2	169
9900000002	0	31	0	0	8	7	40	33	40	18
Month Tot	11	263	11	171	15	192	50	530	59	371
Y-T-D Tot	348	4279	125	4640	231	1688	313	10170	156	3608
NC YTD Tot	5	584	25	499	2	65	22	1584	2	98
C&F Month	159	1170	26	213	88	583	87	1052	121	573
C&F Y-T-D	1432	10356	734	9100	1068	6193	846	18916	397	4996
C&F NC YTD*	19	2215	49	1498	6	1247	45	6965	4	220

Other Manufacturing Technology

1000000000	0	1151	0	386	0	440	0	709	0	591
2000000000	0	99	0	683	0	50	0	215	0	846
2710003070	0	69	0	0	0	0	0	115	0	50
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	113	0	11	0	32	0	12	0	18
8456100000	0	0	0	0	1	28	7	396	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	4	300	0	0	0	0	0	0	0	0
106070	0	0	0	0	0	0	1	58	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	2	70	0	0	0	0	8	186	1	1569
300000	0	0	0	0	1	147	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	1	26	3	78	0	0	0	0	0	0
510090	0	0	0	0	7	7	0	0	0	0
590000	0	0	2	38	3	42	0	0	0	0
800000	31	155	2	19	0	0	1	245	6	239
8479899040	11	79	0	0	51	256	0	0	0	0
908040	0	0	0	14	0	17	0	3	0	0
8537100030	6	84	1	11	0	0	1	16	3	24
9024100000	0	113	0	177	0	33	0	87	0	0
9031100000	0	25	0	0	0	49	0	48	0	3
300000	0	9	0	0	0	39	0	0	0	0
9032810040	2921	70	1043	57	0	0	288	14	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	33	0	0	0	0	5	50	7	82
8462100030	0	0	0	0	0	0	1	120	0	0
100050	0	0	0	0	1	47	0	0	1	41
210080	0	0	0	0	0	0	0	0	5	3216
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	13	0	0	0	0	4	86	11	334
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	7	114
410080	1	109	0	0	0	0	0	0	1	42
490050	2	37	0	0	0	0	0	0	5	229
910060	1	12	0	0	0	0	0	0	0	0
910090	1	28	0	0	0	0	0	0	1	6
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	8	373
990060	1	14	0	0	0	0	5	284	37	394
8463100080	7	128	0	0	1	10	0	0	7	58
200080	0	0	0	0	0	0	0	0	1	89
300080	15	370	0	0	0	0	9	204	7	153
900080	2	58	0	0	0	0	1	7	19	523
9800000002	49	271	0	0	0	0	11	250	61	1330
9900000002	86	73	0	0	4	4	45	96	285	154
Month Tot	167	1146	0	0	6	60	81	1097	463	7138
Y-T-D Tot	1611	27238	19	695	173	1028	1107	17110	2117	40280
NC YTD Tot	37	3913	1	136	3	79	11	1239	56	8158
C&F Month	495	4386	0	0	29	890	455	2958	928	8602
C&F Y-T-D	4742	62996	42	4402	693	5730	3038	42337	7332	68469
C&F NC YTD*	201	27331	1	136	14	976	53	6949	151	18531

Other Manufacturing Technology

1000000000	0	6059	0	4	0	1135	0	3786	0	9461
2000000000	0	598	0	0	0	413	0	1156	0	2939
2710003070	0	0	0	0	0	0	0	0	0	190
8428900010	0	0	0	0	0	0	1	14	2	16
8431390090	0	299	0	0	0	167	0	19	0	1871
8456100000	7	350	0	0	0	0	11	367	15	326
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	4	257	0	0	0	0	0	0	10	592
200010	1	16	0	0	0	0	2	17	1	25
200050	3	24	0	0	0	0	33	306	29	711
300000	1	418	0	0	0	0	0	0	23	609
400000	4	5	0	0	0	0	1	1069	1	20
510010	1	8	0	0	0	0	0	0	12	244
510090	0	0	0	0	0	0	0	0	32	2143
590000	5	79	0	0	0	0	12	205	1	150
800000	55	1320	0	0	0	0	45	81	116	3177
8479899040	0	0	0	0	0	0	25	314	34	200
908040	0	99	0	0	0	0	0	186	0	111
8537100030	19	326	0	0	0	0	17	247	23	341
9024100000	0	570	0	0	0	8	0	481	0	486
9031100000	0	19	0	0	0	18	0	144	0	107
300000	0	3	0	0	0	0	0	79	0	14
9032810040	4617	380	0	0	1087	66	3190	213	4713	338

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	1	4	0	0	1	4
Denmark	0	0	0	0	0	0
East Germany	0	0	0	0	0	0
Finland	6	9	4	233	10	242
Greece	0	0	7	114	7	114
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	5	179	1	25	6	204
Luxembourg	0	0	0	0	0	0
Norway	4	24	0	0	4	24
Poland	0	0	0	0	0	0
Portugal	1	3	2	102	3	104
Romania	0	0	0	0	0	0
Sweden	65	37	40	408	105	445
Turkey	9	61	0	0	9	61
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	1071	8122	514	6357	1585	14479
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	3	135	3	135
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	41	22	16	28	57	51
Dominican Rep	8	37	38	914	46	951
El Salvador	35	28	0	0	35	28
Guatemala	0	0	0	0	0	0
Haiti	0	0	0	0	0	0
Honduras	6	3	0	0	6	3
Jamaica	0	0	0	0	0	0
Panama	1	19	0	0	1	19
Trinidad	11	7	0	0	11	7
Oth N & C Am.	1	3	11	3	12	6
TOTAL	1731	12579	875	10450	2606	23028
SOUTH AMERICA						
Argentina	8	5	0	0	8	5
Bolivia	0	0	0	0	0	0
Chile	21	143	24	451	45	594
Colombia	14	67	42	181	56	248
Ecuador	6	146	7	82	13	228
Paraguay	0	0	0	0	0	0
Peru	5	30	12	107	17	137
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	113	2147	111	1914	224	4061
OCEANIA						
New Zealand	0	0	25	310	25	310
Oth Oceania	0	0	0	0	0	0
TOTAL	109	3182	113	464	222	3646

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	148	305	138	561	286	865
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	21	35	2	30	23	65
Jordan	0	0	1	10	1	10
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	20	17	20	17
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	4	0	0	1	4
Philippines	11	33	45	220	56	254
Qatar	0	0	0	0	0	0
Saudi Arabia	11	57	3	3	14	60
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	1	4	13	109	14	113
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	952	19205	796	13240	1748	32445
AFRICA						
Algeria	0	0	1	3050	1	3050
Botswana	0	0	0	0	0	0
Egypt	4	64	0	0	4	64
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	13	123	7	6	20	129
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	4	6	1	42	5	48
Oth Africa	3	4	0	0	3	4
TOTAL	24	197	9	3098	33	3296

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

RELEASED: October 31, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	607	40315	83	6996
301050	Electro-discharge machines, n.e.c., NC	254	14445	66	3259
301070	Electro-discharge machines, n.e.c., non-NC	263	6216	29	1421
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1515	119182	138	11685
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	91	18463	10	1977
100035	Horiz. mach. ctrs., ATC	452	101447	49	11890
100045	Mach. ctrs., n.e.c.	178	49699	42	15229
200010	Unit construction mach. (single station transfer), NC	14	1447	0	0
200090	Unit construction mach. (single station transfer), non-NC	2	517	1	155
300010	Multi-station transfer machines, NC	35	20717	5	10082
300090	Multi-station transfer machines, non-NC	69	27820	9	4592
8458110010	Horiz. lathes, multiple spindle, NC	206	35923	37	8046
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	1628	114676	172	12361
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	397	56610	61	8743
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	40	12268	4	1127
190030	Horiz. engine or toolroom lathes, non-NC	2838	30427	257	2675
190050	Automatic bar and/or chucking mach., single spindle, non-NC	631	12117	17	334
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	95	7676	6	961
190090	Horiz. lathes, n.e.c., non-NC	1199	11346	127	1462
911060	Vertical turret lathes, multiple spindle, NC	21	3751	1	198
911080	Vertical turret lathes, n.e.c., NC	43	7873	16	974
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	73	7269	22	1978
991050	Vertical turret lathes, non-NC	69	3769	3	865
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	778	15742	88	2044
8459100000	Way-type unit head machines	4	1610	2	122
210080	Other drilling machines, NC	221	15257	24	2789
290040	Drilling machines, multiple spindle, non-NC	57	1658	1	319
290050	Drilling machines, radial, non-NC	337	2451	33	209
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	69	729	16	99
290090	Drilling machines, n.e.c., non-NC	378	12204	56	1319
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	767	1	104
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	57	8497	13	1855
310070	Boring-milling mach., n.e.c., NC	27	2097	5	1266
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	27	2000	1	137
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	85	4911	11	669
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	37	1475	1	382
400070	Boring machines, n.e.c., NC	27	3282	0	0
400080	Boring machines, n.e.c., non-NC	144	4876	8	184
510080	Milling machines, knee type, NC	417	6760	33	848
590030	Milling machines, knee type, non-NC	2380	17073	242	2278
610080	Milling machines, excl. knee type, n.e.c., NC	399	16123	36	1788
690050	Milling machines, profile, dup., or die sinking, non-NC	33	344	0	0
690070	Milling machines, bed type, non-NC	41	2107	2	66
690090	Milling machines, n.e.c., non-NC	522	15689	35	2810
700020	Threading or tapping machines, n.e.c., NC	123	6368	22	1150
700080	Threading or tapping machines, n.e.c., non-NC	134	3893	28	1103
8460110080	Flat surface grinding mach., NC	104	9200	14	1408
190010	Flat surface grinding mach., recip.-table type, non-NC	779	9883	125	1443
190050	Flat surface grinding mach., n.e.c., non-NC	1370	13319	221	1450
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	348	61427	52	10116
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	326	11724	29	884
290030	Grinding mach., internal cylindrical, non-NC	153	8361	9	838
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	840	33695	75	7096
310080	Sharpening machines (tool & cutter grinding), NC	167	4635	34	1418
390050	Sharpening machines (tool & cutter grinding), non-NC	574	6670	58	684
300060	Honing or lapping machines, NC	29	3921	3	563
400080	Honing or lapping machines, non-NC	179	7065	37	2113
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	34	1615	5	128
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	1023	29704	159	3691
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	8	53	5	13
200010	Shaping or slotting machines, NC	83	2974	15	628
200090	Shaping or slotting machines, non-NC	145	4543	11	1435
300060	Broaching machines, NC	4	7342	1	228
300080	Broaching machines, non-NC	66	3023	8	1402
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	93	7288	7	735
401040	Gear shapers	20	6752	5	3231
401060	Gear cutting machines, n.e.c.	107	561	34	4
405050	Gear grinding or finishing for bevel gears	59	1363	2	472
405070	Gear grinding or finishing machines, n.e.c.	61	16636	6	3043
500050	Sawing or cutting-off machines, NC	78	4944	16	1154
500090	Sawing or cutting-off machines, non-NC	1477	25085	234	7059
9000000001	Metal cutting machine tools, n.e.c.	249	9698	24	1374
9800000001	Used or rebuilt machine tools	4494	22277	1183	3324
9900000001	Machine tools valued at less than $2,500	590861	62977	66669	7918
	Cutting Total			70854	192403
Please see notes on last page	Y-T-D Cutting Total	620753	1226624		
of the metal forming section.	NC Y-T-D Cutting Total	7691	761314		

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	2	53	0	0	0	0	2	21
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	1	623
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	3	188	1	107
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	25	163	7	77	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	348
190090	0	0	44	241	0	0	3	18	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	1	59	14	274	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	4	256
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	4	15	0	0	0	0	6	200
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	717	1	7
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	3	531
310070	0	0	0	0	0	0	1	168	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	1	19
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	50
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	1	6	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	3	1	18	3	360
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	3	1	22
8460110080	0	0	0	0	0	0	0	0	2	94
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	11	66	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	18	130	0	0	0	0
290030	0	0	0	0	1	2	0	0	2	533
290050	0	0	0	0	5	27	0	0	7	174
310080	0	0	0	0	1	2	0	0	3	25
390050	0	0	0	0	2	6	0	0	1	41
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	2	9
900060	0	0	0	0	1	3	0	0	2	51
900080	0	0	0	0	0	0	10	33	5	37
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	21	0	0	0	0	0	0
200090	0	0	0	0	4	11	0	0	4	34
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	1	14
500090	0	0	0	0	21	314	2	70	48	251
9000000001	0	0	0	0	2	300	1	3	2	8
9800000001	1	205	0	0	11	75	0	0	2	2
9900000001	0	0	0	0	134	40	184	256	2063	515
Month Tot	1	205	76	493	221	1117	224	1750	2174	4333
Y-T-D Tot	43	1233	1676	9495	1224	15214	1424	20004	25551	41493
NC YTD Tot	2	110	5	537	32	3260	75	8668	104	12882

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	74	5637	0	0	0	0	0	0	0	0
301050	28	1713	0	0	0	0	1	31	0	0
301070	0	0	0	0	0	0	1	70	0	0
8457100015	80	7896	11	628	5	327	0	0	0	0
100025	7	1057	0	0	0	0	0	0	0	0
100035	41	9664	0	0	0	0	2	270	0	0
100045	2	928	0	0	0	0	0	0	1	130
200010	0	0	0	0	0	0	0	0	0	0
200090	1	155	0	0	0	0	0	0	0	0
300010	5	10082	0	0	0	0	0	0	0	0
300090	3	881	0	0	0	0	0	0	0	0
8458110010	24	4048	0	0	0	0	0	0	0	0
110030	143	10729	3	150	0	0	0	0	0	0
110050	44	6640	1	64	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	1	35	20	253	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	6	464	0	0	0	0	0	0	0	0
911060	1	198	0	0	0	0	0	0	0	0
911080	1	642	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	17	1652	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	7	444	17	885	0	0	0	0	0	0
8459100000	1	8	0	0	0	0	0	0	0	0
210080	16	2119	1	73	0	0	0	0	0	0
290040	1	319	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	6	0	0
290070	0	0	0	0	0	0	12	69	0	0
290090	0	0	0	0	0	0	46	263	0	0
310010	0	0	0	0	0	0	1	104	0	0
310040	1	282	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	214	0	0
320040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	382	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	2	134	0	0	0	0	0	0	0	0
510080	2	405	0	0	0	0	0	0	0	0
590030	6	121	0	0	0	0	131	1269	0	0
610080	4	336	0	0	3	125	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	1	46	0	0	6	0	0	0	0	0
690090	1	86	0	0	0	0	0	0	0	0
700020	20	1048	0	0	0	0	1	59	0	0
700080	13	565	0	0	0	0	1	51	2	60
8460110080	2	208	0	0	0	0	0	0	0	0
190010	1	131	0	0	40	401	0	0	0	0
190050	10	27	0	0	0	0	1	34	0	0
210080	29	4686	0	0	0	0	0	0	0	0
290010	1	209	0	0	0	0	0	0	0	0
290030	2	185	0	0	0	0	0	0	0	0
290050	5	960	0	0	0	0	3	391	5	2266
310080	5	243	0	0	0	0	0	0	0	0
390050	7	169	0	0	0	0	0	0	0	0
400060	1	215	0	0	0	0	0	0	0	0
400080	4	352	0	0	0	0	0	0	0	0
900060	2	75	0	0	0	0	0	0	0	0
900080	56	1827	0	0	0	0	9	918	1	7
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	5	214	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	1	228	0	0	0	0	0	0	0	0
300080	1	4	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	1	42	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	2	18	0	0	0	0	0	0
500050	3	973	0	0	0	0	0	0	0	0
500090	20	712	11	427	0	0	2	43	0	0
9000000001	8	652	0	0	0	0	0	0	0	0
9800000001	1008	1159	0	0	0	0	2	63	103	11
9900000001	7075	917	2215	202	0	0	0	0	114	59
Month Tot	8799	82829	2263	2525	68	1107	215	3854	226	2532
Y-T-D Tot	41733	585437	8625	13689	737	13663	1639	20119	1829	11237
NC YTD Tot	4461	497647	114	7448	132	6828	90	2498	14	4036

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - August 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	9	1359	0	0	0	0	0	0	0	0
301050	6	305	6	104	1	29	2	210	22	866
301070	12	1111	15	155	0	0	0	0	1	85
8457100015	0	0	4	189	29	1764	3	449	6	432
100025	0	0	2	420	0	0	1	500	0	0
100035	0	0	1	176	0	0	5	1780	0	0
100045	2	1229	0	0	3	161	26	12424	4	284
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	1	246	0	0	0	0	4	2842	0	0
8458110010	1	859	0	0	1	199	11	2940	0	0
110030	1	243	9	563	6	329	1	122	9	224
110050	1	87	3	141	1	175	5	1245	2	95
110090	0	0	1	50	0	0	2	501	1	577
190030	1	5	71	536	40	771	3	47	89	787
190050	1	80	15	126	0	0	1	127	0	0
190070	3	596	2	17	0	0	0	0	0	0
190090	0	0	2	74	5	88	2	318	65	259
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	70	0	0	0	0	0	0
991050	1	325	0	0	0	0	2	539	0	0
995090	0	0	0	0	13	276	0	0	41	224
8459100000	0	0	0	0	1	114	0	0	0	0
210080	0	0	0	0	1	145	6	452	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	3	27	0	0	0	0	29	176
290070	0	0	0	0	0	0	3	20	1	10
290090	0	0	0	0	2	13	3	319	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	1	398	0	0	0	0	5	612	3	32
310070	0	0	0	0	0	0	1	483	2	400
390040	0	0	0	0	0	0	0	0	1	137
390050	0	0	0	0	0	0	5	419	5	232
390040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	25	205	6	238	0	0	0	0
590030	0	0	84	541	1	74	3	153	16	113
610080	0	0	7	111	0	0	2	980	20	236
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	1	19	0	0
690090	3	765	0	0	0	0	14	1521	12	57
700020	0	0	0	0	0	0	1	42	0	0
700080	4	11	0	0	0	0	2	324	4	67
8460110080	3	462	0	0	1	65	6	578	0	0
190010	0	0	78	530	0	0	6	380	0	0
190050	3	242	165	661	8	112	1	3	22	305
210080	3	981	1	57	1	1293	18	3099	0	0
290010	4	332	1	62	1	33	1	95	3	24
290030	1	45	0	0	0	0	0	0	3	73
290050	5	401	3	14	14	152	22	2613	6	99
310080	5	33	0	0	1	65	17	853	2	198
390050	2	16	13	75	10	87	18	234	5	56
400060	0	0	0	0	0	0	2	348	0	0
400080	1	34	0	0	12	103	7	1406	11	209
900060	0	0	0	0	0	0	0	0	0	0
900080	3	120	5	27	16	108	31	456	23	158
8461100060	0	0	0	0	0	0	0	0	0	0
100080	5	13	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	9	393
200090	0	0	0	0	0	0	3	1390	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	7	1398	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	1	16	5	677	0	0
401040	0	0	0	0	0	0	5	3231	0	0
401060	33	3	0	0	1	1	0	0	0	0
405050	0	0	0	0	0	0	2	472	0	0
405070	1	782	0	0	0	0	2	1561	1	682
500050	0	0	0	0	0	0	12	166	0	0
500090	3	78	9	48	17	203	58	4576	43	338
9000000001	1	176	0	0	0	0	3	183	7	52
9800000001	2	40	1	30	23	789	16	868	14	82
9900000001	142	31	52772	4771	32	42	291	269	1647	816
Month Tot	264	11408	53299	9780	248	7445	647	54245	2129	8780
Y-T-D Tot	1586	62418	450434	86794	4321	69066	10323	224718	69608	52043
MC YTD Tot	298	23783	662	20087	546	45171	752	111933	404	16424

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

RELEASED: October 31, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	291	17587	14	6118
8462100030	Headers and upsetters, including cold headers	108	9518	8	1147
100050	Forging or die stamping machines, and hammers, n.e.c.	531	31681	34	2678
210080	Bending, folding, straight. or flat. mach., incl presses, NC	395	25315	43	7611
290030	Press brakes, non-NC	225	6233	37	876
290040	Bending rolls, non-NC	75	2014	7	141
290050	Bending, folding, straight., or flat., n.e.c., non-NC	871	29927	129	6468
310080	Shearing machines, NC	49	3697	3	925
390050	Shearing machines, non-NC	428	11545	75	1115
410080	Punching or notching mach., incl. comb. punch & shear, NC	245	26313	27	3585
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	493	8912	58	930
910060	Hydraulic presses, NC	15	13029	3	9658
910090	Hydraulic presses, non-NC	1929	12848	820	2944
990030	Presses, n.e.c., NC	46	3732	0	0
990035	Mechanical transfer presses, non-NC	12	14836	2	5761
990045	Mechanical presses, n.e.c., non-NC	70	3702	5	315
990060	Presses, n.e.c., non-NC	540	23153	72	2353
8463100080	Draw benches for bars, tubes, profiles, wire or the like	39	2155	0	0
200080	Thread rolling machines	61	3275	2	106
300080	Machines for working wire	1013	48285	120	5379
900080	Metal forming machine tools, n.e.c.	453	19924	91	1424
9800000002	Used or rebuilt machine tools	901	13019	152	1398
9900000002	Machine tools valued at less than $2,500	11417	4080	1935	558
	Forming Total			3637	61490
	Y-T-D Forming Total	20207	334779		
	NC Y-T-D Forming Total	750	72085		
	Cutting and Forming Totals:				
	Monthly Total			74491	253893
	Y-T-D Total	640960	1561403		
	NC Y-T-D Total	8441	833399		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	374313	0	45898
2000000000	Parts for working rubber or plastics - heading 8477	0	223713	0	26911
2710003070	Quenching or cutting oils	0	281	0	14
8428900010	Industrial robots for lifting, handling, loading or unload	1377	26183	33	1012
8431390080	Parts industrial robots, handling and loading - heading 8428	0	65750	0	9019
8456101010	Laser, light or photon beam for working metal, NC	123	23068	11	2101
101020	Laser, light or photon beam for working metal, non-NC	60	3566	10	762
105000	Laser, light or photon beam for other materials	104	7455	6	3837
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	7	118	1	36
205000	Ultrasonic processes for working other materials	56	195	50	2
8477103000	Injection molding mach., for manufacturing shoes	101	2089	1	24
106010	Injection molding mach., for rubber or oth. thermosetting	546	45732	57	6655
106050	Injection molding mach., for thermoplastics	1744	168710	211	24611
200010	Extruders for rubber or other thermosetting materials	164	10717	37	1985
200050	Extruders for processing thermoplastics	734	43952	117	7252
300000	Blow molding machines	254	29213	13	1548
400000	Vacuum-molding and other thermoforming machines	146	5489	22	2549
510010	Machines for molding or retreading pneumatic tires	410	35054	33	3317
510090	Machines for molding or otherwise forming inner tubes	253	10314	5	84
590000	Machines for molding or otherwise forming n.e.c.	807	41373	236	3346
800000	Machines for working rubber or plastics n.e.c.	7949	76555	292	14808
8479899040	Industrial robots, n.e.c.	11898	48538	404	5811
908040	Industrial robot parts	0	23790	0	4155
8537100030	Numerical controls for controlling machine tools	8841	31818	442	3266
9024100000	Machines and appliances for testing metals	0	8616	0	1647
9031100000	Machines for balancing mechanical parts	0	9151	0	1508
300000	Profile projectors	0	4407	0	747
9032810020	Industrial process control instr., hydraulic	109751	1579	16097	269
810060	Industrial process control instr., pneumatic	197740	3338	11883	368

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	65	0	0	3	499
8462100030	0	0	0	0	0	0	0	0	1	299
100050	0	0	0	0	0	0	1	13	0	0
210080	0	0	0	0	12	2556	0	0	3	256
290030	0	0	0	0	12	486	0	0	0	0
290040	0	0	0	0	1	3	0	0	3	89
290050	0	0	0	0	22	164	1	174	25	1170
310080	0	0	0	0	0	0	0	0	0	0
390050	7	141	0	0	6	221	0	0	3	12
410080	0	0	0	0	0	0	0	0	1	17
490050	0	0	0	0	2	273	0	0	8	62
910060	0	0	0	0	0	0	0	0	0	0
910090	18	26	0	0	8	559	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	9	256	0	0	9	65
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	7	872	0	0	1	19	2	47	17	1897
900080	0	0	0	0	2	14	3	17	66	849
9800000002	6	148	11	200	50	688	28	83	4	44
9900000002	0	0	0	0	19	18	25	29	106	47
Month Tot	38	1187	11	200	145	5322	60	362	249	5305
Y-T-D Tot	436	17545	11	200	1307	42626	295	2818	1546	31113
NC YTD Tot	38	3210	0	0	40	4011	2	20	56	1599
C&F Month	39	1392	87	693	366	6439	284	2112	2423	9638
C&F Y-T-D	479	18778	1687	9695	2531	57840	1719	22822	27097	72605
C&F NC YTD	40	3320	5	537	72	7271	77	8688	160	14481

Other Manufacturing Technology

1000000000	0	275	0	150	0	4244	0	806	0	2918
2000000000	0	42	0	5	0	4979	0	4685	0	3189
2710003070	0	0	0	0	0	10	0	0	0	0
8428900010	0	0	0	0	2	12	0	0	1	10
8431390080	0	12	0	20	0	2009	0	95	0	6
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	1	24
106010	0	0	0	0	2	506	5	579	1	101
106050	0	0	0	0	19	1849	0	0	14	727
200010	0	0	0	0	1	26	0	0	1	13
200050	0	0	0	0	7	156	0	0	5	579
300000	0	0	0	0	0	0	0	0	3	284
400000	0	0	0	0	0	0	0	0	1	109
510010	0	0	0	0	7	316	1	414	2	314
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	0	0	21	552	1	238	4	1626
800000	20	54	0	0	13	84	2	251	18	289
8479899040	0	0	0	0	1	2	2	129	1	28
908040	0	0	0	0	0	729	0	88	0	24
8537100030	0	0	0	0	1	2	0	0	0	0
9024100000	0	0	0	0	0	193	0	1	0	114
9031100000	0	0	0	0	0	13	0	3	0	5
300000	0	0	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	3	10	0	0	0	0
810060	0	0	0	0	19	5	0	0	330	31

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	3853	1	70	0	0	0	0	0	0
8462100030	7	849	0	0	0	0	0	0	0	0
100050	13	1321	7	321	0	0	0	0	0	0
210080	22	1430	0	0	1	5	0	0	1	2979
290030	1	29	0	0	0	0	0	0	0	0
290040	1	33	0	0	0	0	0	0	0	0
290050	12	783	0	0	0	0	0	0	4	80
310080	1	207	0	0	0	0	0	0	0	0
390050	8	206	0	0	0	0	0	0	0	0
410080	19	2903	0	0	0	0	0	0	0	0
490050	4	25	0	0	0	0	12	203	0	0
910060	1	26	0	0	0	0	0	0	2	9632
910090	8	479	0	0	0	0	0	0	17	226
990030	0	0	0	0	0	0	0	0	0	0
990035	1	5443	0	0	0	0	0	0	0	0
990045	4	306	0	0	0	0	0	0	0	0
990060	9	622	0	0	0	0	0	0	1	4
8463100080	0	0	0	0	0	0	0	0	0	0
200080	1	90	0	0	0	0	1	16	0	0
300080	71	2055	0	0	0	0	0	0	0	0
900080	3	56	0	0	0	0	0	0	2	12
9800000002	4	26	0	0	0	0	13	11	0	0
9900000002	390	118	0	0	0	0	48	38	5	3
Month Tot	582	20860	8	391	1	5	74	268	32	12935
Y-T-D Tot	3376	126763	19	514	79	70	380	3079	476	17838
NC YTD Tot	348	28010	0	0	1	5	0	0	7	13334
C&F Month	9381	103688	2271	2916	69	1112	289	4122	258	15467
C&F Y-T-D	45109	712200	8644	14203	816	13733	2019	23199	2305	29076
C&F NC YTD	4809	525657	114	7448	133	6833	90	2498	21	17370

Other Manufacturing Technology

1000000000	0	12538	0	157	0	540	0	396	0	665
2000000000	0	2099	0	132	0	66	0	108	0	208
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	23	618	0	0	0	0	0	0	0	0
8431390080	0	1473	0	0	0	0	0	20	0	41
8456101010	8	1458	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	2	3829	0	0	0	0	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	35	3962	1	48	0	0	0	0	2	82
106050	85	12358	4	326	2	3	0	0	0	0
200010	25	1526	0	0	0	0	0	0	0	0
200050	1	185	3	272	0	0	0	0	0	0
300000	4	822	0	0	0	0	0	0	0	0
400000	2	207	0	0	0	0	0	0	0	0
510010	17	1559	0	0	0	0	0	0	0	0
510090	2	3	0	0	0	0	0	0	0	0
590000	192	549	0	0	0	0	0	0	0	0
800000	36	8314	0	0	0	0	1	286	13	123
8479899040	250	4607	0	0	0	0	0	0	5	297
908040	0	1067	0	0	0	0	0	0	0	56
8537100030	440	3263	0	0	0	0	0	0	0	0
9024100000	0	569	0	0	0	0	0	0	0	35
9031100000	0	1408	0	0	0	4	0	0	0	0
200000	0	8	0	0	0	0	0	0	0	0
9032810020	0	0	3000	10	0	0	0	0	0	0
2810060	216	15	6000	19	0	0	0	0	1564	168

Note: *Product Code 1000000000 represents* aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	540	0	0	1	11	3	1036	1	43
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	7	5	547	7	470
210080	0	0	0	0	1	28	3	357	0	0
290030	0	0	0	0	0	0	1	4	23	358
290040	0	0	2	16	0	0	0	0	0	0
290050	4	79	0	0	2	90	50	3872	9	57
310080	0	0	0	0	1	15	1	703	0	0
390050	0	0	0	0	29	225	17	235	5	76
410080	2	524	0	0	0	0	5	140	0	0
490050	0	0	8	87	1	8	20	249	3	22
910060	0	0	0	0	0	0	0	0	0	0
910090	1	389	184	114	2	312	3	792	579	48
990030	0	0	0	0	0	0	0	0	0	0
990035	0	0	0	0	1	318	0	0	0	0
990045	0	0	0	0	0	0	0	0	1	9
990060	1	3	0	0	33	705	6	659	4	39
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	8	11	201	1	17	9	262	0	0
900080	3	276	1	3	6	120	1	13	4	64
9800000002	8	97	2	51	3	26	2	10	21	16
9900000002	513	34	355	137	3	2	51	35	420	98
Month Tot	535	1950	563	608	85	1885	177	8914	1077	1299
Y-T-D Tot	1270	16280	5124	7181	700	9846	1537	48772	3651	10133
NC YTD Tot	21	3446	6	920	7	185	188	13871	36	3473
C&F Month	799	13358	53862	10388	333	9330	824	63158	3206	10080
C&F Y-T-D	2856	78698	455558	93975	5021	78912	11860	273490	73259	62176
C&F NC YTD	319	27229	668	21008	553	45357	940	125804	440	19897

Other Manufacturing Technology

1000000000	0	2863	0	1748	0	3650	0	11615	0	3329
2000000000	0	443	0	257	0	497	0	8524	0	1678
2710003070	0	0	0	0	0	0	0	4	0	0
8428900010	1	191	0	0	0	0	6	182	0	0
8431390080	0	825	0	133	0	2107	0	1327	0	951
8456101010	0	0	0	0	0	0	1	239	2	404
101020	0	0	0	0	0	0	10	762	0	0
105000	0	0	0	0	0	0	1	2	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	1	36	0	0
205000	0	0	0	0	0	0	0	0	50	2
8477103000	0	0	0	0	0	0	0	0	0	0
106010	5	419	0	0	0	0	5	752	1	206
106050	3	410	16	609	1	23	54	6982	13	1326
200010	2	150	1	3	3	143	4	123	0	0
200050	0	0	5	426	18	175	78	5459	0	0
300000	0	0	2	23	0	0	1	392	3	27
400000	0	0	0	0	1	4	17	2225	1	4
510010	0	0	0	0	5	32	0	0	1	682
510090	0	0	0	0	2	7	1	75	0	0
590000	0	0	0	0	10	57	4	313	4	13
800000	0	0	55	302	4	70	120	4789	10	245
8479899040	2	319	0	0	1	2	117	132	25	295
908040	0	127	0	0	0	196	0	1783	0	86
8537100030	0	0	0	0	0	0	0	0	1	2
9024100000	0	0	0	0	0	202	0	444	0	88
9031100000	0	6	0	0	0	13	0	53	0	3
300000	0	393	0	0	0	145	0	156	0	45
9032810020	157	41	0	0	1250	6	0	0	11687	202
810060	0	0	2480	29	1007	4	6	21	261	76

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	185	995	0	0	185	995
Bulgaria	0	0	0	0	0	0
Czechoslovakia	17	314	0	0	17	314
Denmark	110	191	13	55	123	246
East Germany	4	727	0	0	4	727
Finland	1	10	0	0	1	10
Hungary	6	485	0	0	6	485
Ireland	0	0	1	10	1	10
Luxembourg	0	0	0	0	0	0
Netherlands	24	906	221	40	245	946
Norway	0	0	0	0	0	0
Poland	71	710	0	0	71	710
Portugal	47	119	20	302	67	421
Romania	0	0	0	0	0	0
USSR	2	15	0	0	2	15
Yugoslavia	62	206	7	470	69	675
Oth Europe	8	86	0	0	8	86
TOTAL	4536	90537	1512	33682	6048	124219
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	214	513	70	120	284	633
Oth N & C Am.	0	0	0	0	0	0
TOTAL	435	1630	215	5442	650	7072
SOUTH AMERICA						
Argentina	2	14	5	23	7	37
Chile	0	0	0	0	0	0
Colombia	1	3	1	3	2	5
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	79	510	17	226	96	736
OCEANIA						
Australia	3	202	3	61	6	263
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	3	202	3	61	6	263

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	1252	1506	701	115	1953	1621
Hong Kong	4	3	9	1	13	4
India	28	139	5	2	33	141
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	23	561	7	73	30	635
Malaysia	35	5	0	0	35	5
Pakistan	0	0	0	0	0	0
Philippines	4	15	1	21	5	35
Thailand	26	1054	0	0	26	1054
Oth Asia	0	0	0	0	0	0
TOTAL	65801	99523	1877	22077	67678	121600
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	13	3	13	3
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	13	3	13	3

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.